



PTO/SB/30 (01-03)

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#### Request -Application Number For Filing Date Continued Examination (RCE) First Named Inventor **Transmittal** Address to: Art Unit Commissioner for Patents Examiner Name **Box RCE** Washington, DC 20231 Attorney Docket Number

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1.	Submission required under 37 CFR 1.114
	a. Previously submitted
	i. Consider the amendment(s)/reply under 37 CFR 1.116 previously filed on(Any unentered amendment(s) referred to above will be entered).
	ti. Consider the arguments in the Appeal Brief or Rely Brief previously filed on
	lii. Other
	b. Enclosed
	I. Amendment/Reply iii. Information Disclosure Statement (IDS)
	ii. Affidavit(s) Declaration(s) iv. Other
2.	Miscellaneous
	Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months. (Period of suspension shall not exceed.3 months; Fee under 37 CFR 1.17(i) required)
	b. Other
3.	Fees The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.
J.	The Director is hereby authorized to charge the following fees, or credit any overpayments, to
	a. Deposit Account No.
•	i. RCE fee required under 37 CFR 1.17(e)
	ii. Extension of time fee (37 CFR 1.136 and 1.17)
,	· Iii. Other
	b. Check in the amount of \$enclosed
	c. Payment by credit card (Form PTO-2038 enclosed)
	WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.
A/	SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED
	18 (Print/Type) 20 10 K.M. Print Registration No. (Attorney/Agent)
J.g/1	3-73-03
Iboro	
addre	eby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mathin an envelope assed to: Commissioner For Patents, Box RCE, Washington, DC 20231, or facsimile transmitted to the U.S. Patent and Trademark Office on the date
show	n below. NO DACC. WAFAX SE
Signa	e (Print/Type)
	Page I of 2

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Introduction Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: or Patents, Box RCE, Washington, DC 20231.

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FAX FRECEIVED Commissioner for Patents, Box RCE, Washington, DC 20231.

PTO/SB/17 (01-03)
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# FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$) 3°	75.°	O
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Complete if Known			
Application Number	09/853.190		
Filing Date	5-11-01		
First Named Inventor	Tawassul A. Khan		
Examiner Name	Toan M. Le		
Art Unit	2862		
Attorney Docket No.			

METHOD OF PAYMENT (check all that apply)  FEE CALCULATIO	(continued)
Check Credit card Money Other None 3. ADDITIONAL FEES	
Deposit Account:	
Deposit Fee Fee Fee Fee Fee Fee Fee Fee Fee Des	ription Fee Paid
Account Number 1051 130 2051 65 Surcharge - late filin	
Deposit 1052 50 2052 25 Surcharge - late pro	sional filing fee or
Account Cover sheet Name 1053 130 1053 130 Non-English specific	tion
The Commissioner is authorized to: (check all that apply)	ex parte reexamination
Charge fee(s) Indicated below Credit any overpayments 1804 920° 1804 920° Requesting publication	n of SIR prior to
Charge any additional fee(s) during the pendency of this application  Examiner action	
Charge fee(s) indicated below, except for the filling fee 1805 1,840* Requesting publicate to the above-identified deposit account.	n of SIR after
FEE CALCULATION 1251 110 2251 55 Extension for reply	thin first month
1. BASIC FILING FEE 1252 410 2252 205 Extension for reply	ithin second month
Large Entity Small Entity 1253 930 2253 465 Extension for reply	ithin third month
Fee Fee Fee Fee Description Fee Paid 1254 1,450 2254 725 Extension for repty	ithin fourth month
1001 750 2001 375 Utility filing fee 1255 1,970 2255 985 Extension for repty	ithin fifth month
1002 330 2002 165 Design filing fee 1401 320 2401 160 Notice of Appeal	<u> </u>
1003 520 2003 260 Plant filling fee 1402 320 2402 160 Filling a brief in supp	rt of an appeal
1004 750 2004 375 Reissue filing fee 1403 280 2403 140 Request for oral her	ing
1005 160 2005 80 Provisional filing fee 1451 1,510 1451 1,510 Petition to institute a	public use proceeding
SUBTOTAL (1) (\$) 0 1452 110 2452 55 Petition to revive - u	avoidable
1453 1.300 2453 650 Petition to revive - i	Intentional
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE 1501 1,300 2501 650 Utility issue fee (or	issue)
Extra Claims below Fee Paid 1502 470 2502 235 Design issue fee	ļ
Total Claims 2000 = X 1503 630 2503 315 Plant issue fee Independent X 1503 630 2503 315 Plant issue fee	
Claims 1400 130 Februaris to the Col.	
1807 50 1807 50 Processing ree und	' "
Large Entity   Small Entity   1806   1806   1806   18	
Code (\$) Code (\$) 8021 40 8021 40 roperty (times num	er of properties)
1202 18 2202 9 Claims in excess of 20 1809 750 2809 375 Filing a submission	
1201 84 2201 42 Independent dalms in excess of 3 (37 ČFR 1.129(a))	
1203 280 2203 140 Multiple dependent claim, if not paid 1810 750 2810 375 For each additional examined (37 CFR	.129(b))
1 1204 RA 1 2204 42 "Reissue independent cialms 1 1	ed Examination (RCE) 375
1205 18 2205 9 ** Reissue claims in excess of 20 1802 900 1802 900 Request for exped of a design applica	ed examination
SUBTOTAL (2) (\$) D Other fee (specify)	
"or number previously paid, if greater; For Reissues, see above Reduced by Basic Filing Fee Paid SUB	OTAL (3) (\$) 375

SUBMITTED BY			(Complete (if applicable)	
Name (Print/Type)	Sofia K. M. Guire	Registration No. (Attorney/Agent)	Telephone	713-942-7926
Signature	Soin Action .		Date	5-13-03
	WARDING: Information on this form ma	y become public. Credit car	d information shou	ld not

be included on this form. Provide credit card information and authorization on PTO-2038.

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TAWASSUL A. KHAN

# 1 Supto 532 03 Nonlinear Seismic Imaging, Inc.

:7135212873

3200 Southwest Freeway • Suite 2340 • Houston, Texas 77027 713.552.2727 • Fax: 713.521.2873

email: tkhan@houston.rr.com

## <u>SENT VIA FACSIMILE 703/872-9318</u>

September 18, 2002

Toan M. Le, Examiner Box PATENT APPLICATION Commissioner for Patents Washington, DC 20231

RE: Application No. 09/853,190

Applicant Tawassul A. Khan (Inventor)

Titled - Mapping Permeable Reservoir Formations by Measuring the Elastic Nonlinear Interactions of a Seismic Wave as it Propagates

through the Reservoir Rock Matrix and its Pore Fluids.

Dear Mr. Le:

Enclosed is the Reply to USPTO Office Action Summary of March 18, 2003 regarding Application No. 09/853,190.

We have enclosed the following items to better explain the side lobe phenomenon:

- Amended Claims
- An Example of Crosswell Data Showing Frequency Side-Lobes due to Permeability, including actual Test Results
- Transmittal Form
- Request for Continued Examination
- Fee Transmittal
- Credit Card Payment Form

If you would prefer to meet with us face to face, we are able to come to your office to explain the entire concept to clarify any question you may have regarding the claims and specification. We appreciate your suggestion of hiring a registered patent attorney; we

are not ignoring your recommendation. Financially, we cannot afford to hire an attorney at this time – Nonlinear Seismic Imaging, Inc. has no revenue currently.

Thank you for your consideration in this matter. Please do not hesitate to contact me at 713/942-7926 with any questions.

ZXXXIII IV

**Enclosures** 

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#### 4/ 15

# REPLY TO PTO COMMUNICATION OF MARCH 18, 2003 RE: APPLICATION #09/853,190

The examiner again suggested in his communication of March 18, 2003, that applicant did not clearly define the device in the claims.

Applicant respectfully responds that the claims do not describe a device, but rather define a novel and unobvious <u>method</u>. The details are dependent on conditions, but would be known to those of ordinary skill in the art once the steps of the method are presented.

The claims are amended as follows in compliance with 37 CFR 1.121: PLEASE SEE ATTACHED.





# TAWASSUL A. KHAN

# NONLINEAR SEISMIC IMAGING, INC.

3200 Southwest Freeway • Sulte 2340 • Houston, Texas 77027 713.552.2727 • Fax: 713.521.2873

email: tkhan@houston.rr.com

## Sent Via Facsimile

Number of Pages:

15 including cover sheet

TO:

Toan M. Le, EXAMINER US Patent and Trade Office

Company: Fax Number:

703/872-9318

From:

Sofia McGuire

Fax Number:

713/521-2873

Tel. Number:

713/552-2727

Date:

5/13/03 6:29:16 PM

RE:

Application No. 09/853,190

### **REMARKS:**

Please see attached based upon the USPTO Communication of March 18, 2003. If you have any questions concerning this transmission or the application, please contact me directly at 713/942-7926.

SOLVIATION CY

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PTO/SB/21 (03-03)

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			Application Number	19 /853 19h	
TRANSMITTAL			Filing Date	5-11-2001	
FORM			First Named Inventor	Tawassul A. Khan	
ρto	be used for all correspondence after Initial	filing)	Art Unit	2862	
			Examiner Name	Toan M. Le	
Tot	tal Number of Pages in This Submission		Attorney Docket Number		
		ENC	OSURES (Check all that	apply)	
	Fee Transmittal Form  Fee Attached  Amendment/Repty  After Final  Affidavits/declaration(s)  Extension of Time Request  Express Abandonment Request  Information Disclosure Statement  Certified Copy of Priority  Document(s)  Response to Missing Parts/ Incomplete Application  Response to Missing Parts  under 37 CFR 1.52 or 1.53		Drawing(s)  Licensing-related Papers  Petition  Petition to Convert to a  Provisional Application  Power of Attorney, Revocation  Change of Correspondence Addre  Terminal Disclaimer  Request for Refund  CD, Number of CD(s)	After Allowance Communication to Group Appeal Communication to Board of Appeals and Interferences Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) Proprietary Information  Status Letter Other Enclosure(s) (please Identify below): Am Example of Crosswell Data. Showing Frequency Side-lobes due to Permeability Amended Claims Communication/Reply LCE	
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT					
Firm or Individual Sofia K. M. Guire Signature					
Date					
CERTIFICATE OF TRANSMISSION/MAILING					
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date:    Service Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date:					
Typed or printed Sotia K. M. Incire.					
Signature Date 5-13-03					
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